TITLE INDEX

Alcuin's Sequence, Donald J. Bindner and Martin Erickson, 115
Analytic Approach to Galileo's Theorem on the Descent Time Along Two-Chord Paths in a Circle, Robert Mandl, Thomas Pühringer, and Maximilian Thaler, 468
Ancient Indian Square Roots: An Exercise in Forensic Paleo-Mathematics, David H. Bailey and Jonathan M. Borwein, 646
Another Way to Sum a Series: Generating Functions, Euler, and the Dilog Function, Dan Kalman and Mark McKinzie, 42
Arithmetic Polygons, Robert Dawson, 695
Aronszajn's Criterion for Euclidean Space, R. D. Arthan, 419
Arrangements of Stars on the American Flag, Dimitris Koukoulopoulos and Johann Thiel, 443
Binomial-like Matrix Equation, A, Alin Bostan and Thierry Cambot, 593
Calculation of the Volume of Multidimensional Cones and Balls Using Cavalieri's Principle, Boris M. Makarov, 685
Case of Continuous Hangover, A, Burkard Polster, Marty Ross, and David Treeby, 122
Character Analysis Using Fourier Series, Daniel Reem, 245
Chebyshev Mappings of Finite Fields, Julian Rosen, Zachary Scherr, Benjamin Weiss, and Michael E. Zieve, 151
Class of Periodic Continued Radicals, A, Costas J. Efthimiou, 52
Collapsing Walls Theorem, Igor Pak and Rom Pinchasi, 156
Covering Numbers in Linear Algebra, Pete L. Clark, 65
Drilling for Polygons, Barry Cox and Stan Wagon, 300
Elementary Counterexample in the Compact-Open Topology, An, Jonathan Groves, 693
Elementary View of Weyl's Theory of Equal Distribution, An, William F. Trench, 852
Equalization Probability of the Pólya Urn, The, Timothy C. Wallstrom, 516
Evaluation of Certain Legendre Symbols, David Angell, 690
Extraordinary Power of Division in Straight Line Programs, The, Peter Borwein and Joe Hobart, 584
Extraordinary SVD, The, Carla D. Martin and Mason A. Porter, 838
Familiar Recurrence Occurs Again, A, Isaac Leonard and A. C. F. Liu, 333
Few Riddles Behind Rolle's Theorem, A, B. Shapiro and M. Shapiro, 787
Finiteness Theorems for Perfect Numbers and Their Kin, Paul Pollack, 670
Flexagons Lead to a Catalan Number Identity, David Callan, 415
Functions with Constant Mean on Similar Countable Subsets of $\mathbb{R}^2$, Cédric De Groote and Mitia Duerinckx, 603
Fundamental Theorem of Algebra: From the Four Basic Operations, The, Oswaldo Rio Branco de Oliveira, 753
Fundamental Theorem of Algebra Made Effective: An Elementary Real-Algebraic Proof via Sturm Chains, The, Michael Eisermann, 715
Gaussian Curvature, Mirrors, and Maps, Pedro Roitman, 506
Generalization of the Cayley-Hamilton Theorem, A, Lizhou Chen, 340
Generalizing Gauss's Gem, Ezra Brown and Marc Chamberland, 597
Geometric Interpretation of Pascal's Formula for Sums of Powers of Integers, A, Parames Laosinchai and Bhinyo Panijpan, 58
How to Make the Most of a Shared Meal: Plan the Last Bite First, Lionel Levine and Katherine E. Stange, 550
Hyperplane Sections of the n-Dimensional Cube, Rolfdieter Frank and Harald Riede, 868
Introduction to Algebraic Geometry: Polygons, Parameterizations, and Equations, Jessica Sidman, 183
Invariant Histograms, Daniel Brinkman and Peter J. Olver, 4
Is Napoleon's Theorem Really Napoleon's Theorem?, Branko Grünbaum, 495
Jacobi Sum Matrices, Sam Vandervelde, 100

http://dx.doi.org/10.4169/amer.math.monthly.119.10.895

Killer Problems, Tanya Khovanova and Alexey Radul, 815
Limit Representations of Riemann's Zeta Function, Djurdje Cvijović and Hari M. Srivastava, 324
Looking for a Few Good Means, Bruce Ebanks, 658
Lost Mail: The Missing Envelope in the Problem of the Minimal Surface of Revolution, Tony Gilbert, 359
Magic Squares and Sudoku, John Lorch, 759
Mappings into the Euclidean Sphere, Raymond Mortini and Rudolf Rupp, 485
Mercator and Stereographic Projections, and Many in Between, The, Daniel Daners, 199
Model for Pairs of Beatty Sequences, A, Yuval Ginosar and Ilan Yona, 636
Monochromatic Permutation Quadruples—A Schur Thing in S_n, R. McCutcheon, 342
Nearest Integer Solution to the Longest Run of Randomly Generated Words, A, Kai F. Kristensen, 566
Newton Identities for Weierstrass Products, Florian Breuer, 796
Norms as a Function of p Are Linearly Independent in Finite Dimensions, Greg Kuperberg, 601
Note on a War-like Card Game, Boris Alexeev and Jacob Tsimerman, 793
On Finiteness in the Card Game of War, Evgeny Lakshtanov and Vera Roshchina, 318
On Polynomials and Divisibility, Michael J. Dorfling and Johan H. Meyer, 502
On the Elementary Symmetric Functions of $1, 1/2, \ldots, 1/n$, Yong-Gao Chen and Min Tang, 862
On the Mathematics of Income Inequality: Splitting the Gini Index in Two, Robert T. Jantzen and Klaus Volpert, 824
On What Is the Almost-Near Principle, Hassan Boualem and Robert Brouzet, 381
Parametrization of Algebraic Curves from a Number Theorist's Point of View, F. Lemmermeyer, 573
Perfect Parallelograms, Walter Wyss, 513
Playing a Game to Bound the Chromatic Number, Panagiota Panagopoulou and Paul Spirakis, 771
Power Series Approach to Some Inequalities, A, Cristinel Mortici, 147
Power Values of Divisor Sums, Frits Beukers, Florian Luca, and Frans Oort, 373
Prime Divisors of Thin Sequences, Christian Elsholtz, 331
Proof of Euler's Infinite Product for the Sine, A, Lars Holst, 518
Prüfer Angle Approach to the Periodic Sturm-Liouville Problem, A, Paul Binding and Hans Volkmer, 477
Real and Generic Data without Unconstrained Best-Fitting Verhulst Curves and Sufficient Conditions for Median Mitscherlich and Verhulst Curves to Exist, Yves Nievergelt, 211
Riemann Maps and Diameter Distance, David A. Herron, 140
Rolling Sinusoidal Spirals, Fred Kuczmarski, 451
Sample Means of Independent Standard Cauchy Random Variables Are Standard Cauchy: A New Approach, Michael P. Cohen, 240
Seventy-Second William Lowell Putnam Mathematical Competition, The, Leonard F. Klosinski, Gerald L. Alexanderson, and Mark Krusemeyer, 623
Sinc that Sank, A, David Borwein, Jonathan M. Borwein, and Armin Straub, 535
Solving a Generalized Heron Problem by Means of Convex Analysis, Boris S. Mordukhovich, Nguyen Mau Nam, and Juan Salinas, Jr., 87
Spiral of Theodorus and Sums of Zeta-values at the Half-integers, The, David Brink, 779
Square Root as a Homomorphism, William C. Waterhouse, 235
Submajorization and the Geometry of Unordered Collections, Rachel Wells Hall and Dmitri Tymoczko, 263
Sums of Reciprocals of Polynomials over Finite Fields, Kenneth Hicks, Xiang-dong Hou, and Gary L. Mullen, 313
Tiling Hamiltonian Cycles on the 24-Cell, Jacob A. Siehler, 872
Tossing Coins to Guess a Secret Number, Robbert Fokkink, 337
Toy Forecast Model, A, Witold Sadowski, 876
Turán Number and Probabilistic Combinatorics, The, Alan J. Aw, 510
Unknowable Matters: How Nature's Speed Limit on Communication Relates to Quantum Physics, Stephen McAdam, 284
(Un)equal Tangents Problem, The, Sergei Tabachnikov, 398
Upper Bound for Spherical Caps, An, Tomasz Tkocz, 606
Variation on the Money-Changing Problem, A, Lance Bryant, James Hamblin, and Lenny Jones, 406

Vector Analysis Proof of Erdős' Inequality for Triangles, Akira Sakurai, 682
When Is a Trigonometric Polynomial Not a Trigonometric Polynomial?, Joseph E. Borzellino and Morgan Sherman, 422
Yueh-Gin Gung and Dr. Charles Y. Hu Award for 2012 to John Ewing for Distinguished Service to Mathematics, Ann Watkins, 179
Zariski Decomposition: A New (Old) Chapter of Linear Algebra, Thomas Bauer, Mirel Caibăr, and Gary Kennedy, 25

Author Index

Alexanderson, Gerald L., Leonard F. Klosinski, and Mark Krusemeyer, The Seventy-Second William Lowell Putnam Mathematical Competition, 623
Alexeev, Boris, and Jacob Tsimerman, Note on a War-Like Card Game, 793
Angell, David, Evaluation of Certain Legendre Symbols, 690
Arthan, R. D., Aronszajn's Criterion for Euclidean Space, 419
Aw, Alan J., The Turán Number and Probabilistic Combinatorics, 510
Bailey, David M. and Jonathan M. Borwein, Ancient Indian Square Roots: An Exercise in Forensic Paleo-Mathematics, 646
Bauer, Thomas, Mirel Caibăr, and Gary Kennedy, Zariski Decomposition: A New (Old) Chapter of Linear Algebra, 25
Beukers, Frits, Florian Luca, and Frans Oort, Power Values of Divisor Sums, 373
Binding, Paul and Hans Volkmer, A Prüfer Angle Approach to the Periodic Sturm-Liouville Problem, 477
Bindner, Donald J. and Martin Erickson, Alcuin's Sequence, 115
Borwein, David, Jonathan Borwein, and Armin Straub, A Sinc that Sank, 535
Borwein, Jonathan, *see Bailey*
Borwein, Jonathan, *see Borwein, David*
Borwein, Peter and Joe Hobart, The Extraordinary Power of Division in Straight Line Programs, 584
Borzellino, Joseph E. and Morgan Sherman, When Is a Trigonometric Polynomial Not a Trigonometric Polynomial?, 422
Bostan, Alin and Thierry Cambot, A Binomial-like Matrix Equation, 593
Boualem, Hassan and Robert Brouzet, On What Is the Almost-Near Principle, 381
Breuer, Florian, Newton Identities for Weierstrass Products, 796
Brink, David, The Spiral of Theodorus and Sums of Zeta-values at the Half-integers, 779
Brinkman, Daniel and Peter J. Olver, Invariant Histograms, 4
Brouzet, Robert, *see Boualem*
Brown, Ezra and Marc Chamberland, Generalizing Gauss's Gem, 597
Bryant, Lance, James Hamblin, and Lenny Jones, A Variation on the Money-Changing Problem, 406
Caibăr, Mirel, *see Bauer*
Callan, David, Flexagons Lead to a Catalan Number Identity, 415
Cambot, Thierry, *see Bostan*
Chamberland, Marc, *see Brown*
Chen, Lizhou, A Generalization of the Cayley-Hamilton Theorem, 340
Chen, Yong-Gao and Min Tang, On the Elementary Symmetric Functions of $1, 1/2, \ldots, 1/n$, 862
Clark, Pete L., Covering Numbers in Linear Algebra, 65
Cohen, Michael P., Sample Means of Independent Standard Cauchy Random Variables Are Standard Cauchy: A New Approach, 240
Cox, Barry and Stan Wagon, Drilling for Polygons, 300
Cvijović, Djurdje and Hari M. Srivastava, Limit Representations of Riemann's Zeta Function, 324
Daners, Daniel, The Mercator and Stereographic Projections, and Many in Between, 199
Dawson, Robert, Arithmetic Polygons, 695
De Groote, Cédric and Mitia Duerinckx, Functions with Constant Mean on Similar Countable Subsets of $\mathbb{R}^2$, 603
Dorfling, Michael J. and Johan Meyer, On Polynomials and Divisibility, 502
Duerinckx, Mitia, *see De Groote*
Ebanks, Bruce, Looking for a Few Good Means, 658
Efthimiou, Costas J., A Class of Periodic Continued Radicals, 52

Eisermann, Michael, The Fundamental Theorem of Algebra Made Effective: An Elementary Real-Algebraic Proof via Sturm Chains, 715
Elsholtz, Christian, Prime Divisors of Thin Sequences, 331
Erickson, Martin, *see Bindner*
Fokkink, Robbert, Tossing Coins to Guess a Secret Number, 337
Gilbert, Tony, Lost Mail: The Missing Envelope in the Problem of the Minimal Surface of Revolution, 359
Ginosar, Yuval and Ilon Yona, A Model for Pairs of Beatty Sequences, 636
Groves, Jonathan, An Elementary Counterexample in the Compact-Open Topology, 693
Grünbaum, Branko, Is Napoleon's Theorem Really Napoleon's Theorem?, 495
Hall, Rachel Wells and Dmitri Tymoczko, Submajorization and the Geometry of Unordered Collections, 263
Hamblin, James, *see Bryant*
Herron, David A., Riemann Maps and Diameter Distance, 140
Hicks, Kenneth, Xiang-dong Hou, and Gary L. Mullen, Sums of Reciprocals of Polynomials over Finite Fields, 313
Hobart, Joseph, *see Borwein, Peter*
Holst, Lars, A Proof of Euler's Infinite Product for the Sine, 518
Hou, Xiang-dong, *see Hicks*
Jantzen, Robert T. and Klaus Volpert, On the Mathematics of Income Inequality: Splitting the Gini Index in Two, 824
Jones, Lenny, *see Bryant*
Kalman, Dan and Mark McKinzie, Another Way to Sum a Series: Generating Functions, Euler, and the Dilog Function, 42
Kennedy, Gary, *see Bauer*
Khovanova, Tanya and Alexey Radul, Killer Problems, 815
Klosinski, Leonard, *see Alexanderson*
Koukoulopoulos, Dimitris and Johann Thiel, Arrangements of Stars on the American Flag, 443
Kristensen, Kai F., A Nearest Integer Solution to the Longest Run of Randomly Generated Words, 566
Krusemeyer, Mark, *see Alexanderson*
Kuczmarski, Fred, Rolling Sinusoidal Spirals, 451
Kuperberg, Greg, Norms as a Function of p Are Linearly Independent in Finite Dimensions, 601
Lakshtanov, Evgeny and Vera Roshchina, On Finiteness in the Card Game of War, 318
Laosinchai, Parames and Bhinyo Panijpan, A Geometric Interpretation of Pascal's Formula for Sums of Powers of Integers, 58
Lemmermeyer, F., Parametrization of Algebraic Curves from a Number Theorist's Point of View, 573
Leonard, I. E. and A. C. F. Liu, A Familiar Recurrence Occurs Again, 333
Levine, Lionel and Katherine E. Stange, How to Make the Most of a Shared Meal: Plan the Last Bite First, 550
Liu, A. C. F., *see Leonard*
Lorch, John, Magic Squares and Sudoku, 759
Luca, Florian, *see Beukers*
Makarov, Boris, Calculation of the Volume of Multidimensional Cones and Balls Using Cavalieri's Principle, 685
Mandl, Robert, Thomas Pühringer, and Maximilian Thaler, Analytic Approach to Galileo's Theorem on the Descent Time Along Two-Chord Paths in a Circle, 468
Martin, Carla D. and Mason A. Porter, The Extraordinary SVD, 838
Mau Nam, Nguyen, see *Mordukhovich*
McAdam, Stephen, Unknowable Matters: How Nature's Speed Limit on Communication Relates to Quantum Physics, 284
McCutcheon, R., Monochromatic Permutation Quadruples—A Schur Thing in S_n, 342
McKinzie, Mark, *see Kalman*
Meyer, Johan, *see Dorfling*
Mordukhovich, Boris S., Nguyen Mau Nam, and Juan Salinas, Jr., Solving a Generalized Heron Problem by Means of Convex Analysis, 87
Mortici, Cristinel, Power Series Approach to Some Inequalities, A, 147
Mortini, Raymond and Rudolf Rupp, Mappings into the Euclidean Sphere, 485
Mullen, Gary, *see Hicks*
Nievergelt, Yves, Real and Generic Data without Unconstrained Best-Fitting Verhulst Curves and Sufficient Conditions for Median Mitscherlich and Verhulst Curves to Exist, 211
Oliveira, Oswaldo Rio Branco de, The Fundamental Theorem of Algebra: From the Four Basic Operations, 753
Olver, Peter, *see Brinkman*
Oort, Frans, *see Beukers*
Pak, Igor and Rom Pinchasi, Collapsing Walls Theorem, 156

Panagopoulou, Panagiota N. and Paul G. Spirakis, Playing a Game to Bound the Chromatic Number, 771
Panijpan, Bhinyo, *see Laosinchai*
Pühringer, Thomas, *see Mandl*
Pinchasi, Rom, *see Pak*
Pollack, Paul, Finiteness Theorems for Perfect Numbers and Their Kin, 670
Polster, Burkard, Marty Ross, and David Treeby, A Case of Continuous Hangover, 122
Porter, Mason, *see Martin*
Pühringer, Thomas, *see Mandl*
Radul, Alexey, *see Khovanova*
Reem, Daniel, Character Analysis Using Fourier Series, 245
Riede, Harald, *see Rolfdieter*
Roitman, Pedro, Gaussian Curvature, Mirrors, and Maps, 506
Rolfdieter, Frank and Harald Riede, Hyperplane Sections of the n-Dimensional Cube, 862
Rosen, Julian, Zachary Scherr, Benjamin Weiss, and Michael E. Zieve, Chebyshev Mappings of Finite Fields, 151
Roshchina, Vera, *see Lakshtanov*
Ross, Marty, *see Polster*
Rupp, Rudolf, *see Mortini*
Sadowski, Witold, A Toy Forecast Model, 876
Sakurai, Akira, Vector Analysis Proof of Erdős' Inequality for Triangles, 682
Salinas, Juan, *see Mordukhovich*
Scherr, Zachary, *see Rosen*
Shapiro, B. and M. Shapiro, A Few Riddles Behind Rolle's Theorem, 787
Shapiro, M., *see Shapiro*
Sherman, Morgan, *see Borzellino*
Sidman, Jessica, An Introduction to Algebraic Geometry: Polygons, Parameterizations, and Equations, 183
Siehler, Jacob A., Tiling Hamiltonian Cycles on the 24-Cell, 872
Spirakis, Paul, *see Panagopoulou*
Srivastava, Hari, *see Cvijovic*
Stange, Katherine, *see Levine*
Straub, Armin, *see Borwein, David*
Tabachnikov, Sergei, The (Un)equal Tangents Problem, 398
Tang, Min, see *Chen, Yong-Gao*
Thaler, Maximilian, *see Mandl*
Thiel, Johann, *see Koukoulopoulos*
Tkocz, Tomas, An Upper Bound for Spherical Caps, 606
Treeby, David, *see Polster*
Trench, William F., An Elementary View of Weyl's Theory of Equal Distribution, 852
Tsimerman, Jacob, *see Alexeev*
Tymoczko, Dmitri, *see Hall*
Vandervelde, Sam, Jacobi Sum Matrices, 100
Volker, Hans, *see Binding*
Volpert, Klaus, *see Jantzen*
Wagon, Stan, *see Cox*
Wallstrom, Timothy C., The Equalization Probability of the Pólya Urn, 516
Waterhouse, William C., Square Root as a Homomorphism, 235
Watkins, Ann, Yueh-Gin Gung and Dr. Charles Y. Hu Award for 2012 to John Ewing for Distinguished Service to Mathematics, 179
Weiss, Benjamin, *see Rosen*
Wyss, Walter, Perfect Parallelograms, 513
Yona, Ilan, *see Ginosar*
Zieve, Michael, *see Rosen*

Problems Proposed

Alekseyev, Max. A., *see Fon-Der-Flaass*
Alexander, Samuel, 162, 11627
Alkauskas, Giedrus, 609, 11661
Apostolopoulos, George, 345, 11638
Bakke, Miranda, Benson Wu & Bogdan Suceavă, 800, 11670
Bătineţu-Giurgiu, D.M. & Stanciu Neculai, 248, 11634
Bătineţu-Giurgiu, D.M. & Stanciu Neculai, 801, 11676
Becker, Michael, 522, 11650
Bennett, Grahame, 522, 11649
Benson, Benson, *see Bakke*
Bloome, Lane, Peter Johnson & Nathan Saritzky, 162, 11625
Bogoşel, Benjamin & Cezar Lupu, 880, 11680
Borwein, David, Jonathan M. Borwein & James Wan, 523, 11654
Borwein, Jonathan, *see Borwein, David*
Bourbăcuţ, Nicolae, 345, 11641
Callan, David & Emeric Deutsch, 161, 11624
Celaya, Marcel & Frank Ruskey, 522, 11651
Choudhry, Ajai, 522, 11652
Dályay, Pál Péter, 68, 11618
Dályay, Pál Péter, 247, 11631
Dályay, Pál Péter, 427, 11646

Dályay, Pál Péter, 523, 11655
Dályay, Pál Péter, 800, 11674
David, Karl, 345, 11640
de Angelis, Valerio, 608, 11656
Deshpande, M.N., *see Gabhe*
Deutsch, Emeric, *see Callan*
Faynshteyn, Oleh, 161, 11622
Fon-Der-Flaass, Dmitry G. & Max. A. Alekseyev, 699, 11666
Furdui, Ovidiu, 344, 11637
Furdui, Ovidiu, 426, 11642
Furdui, Ovidiu, 881, 11682
Gabhe, Aruna & M.N. Deshpande, 161, 11623
Galperin, Gregory & Yury Ionin, 608, 11657
Grinberg, Darij, *see Pohoata*
Hajja, Mowaffaq, 344, 11636
Hillar, Christopher, 69, 11619
Hillar, Christopher, Lionel Levine & Darren Rhea, 427, 11645
Holing, Kent, 800, 11673
Holland, Finbarr, 523, 11653
Ionascu, Eugen J., 426, 11643
Ionascu, Eugen J., 699, 11663
Ionin, Yury, *see Galperin*
Johnson, Peter, *see Bloome*
Keller, Tim, 880, 11679
Kouba, Omran, 345, 11639
Lagarias, Jeffrey C. & Michael E. Zieve, 247, 11628
Levine, Lionel, *see Hillar*
Lupu, Cezar, 162, 11626
Lupu, Cezar & Tudorel Lupu, 427, 11647
Lupu, Cezar & Dan Schwartz, 248, 11632
Lupu, Cezar & Dan Schwartz, 700, 11667
Lupu, Cezar, *see Bogoşel*
Lupu, Tudorel, *see Lupu, Cezar*
MacHale, Des, 880, 11681
Mateescu, Constantin, 68, 11615
Mateescu, Constantin, 247, 11630
Merca, Mircea, 801, 11675
Minculete, Nicuşor, *see Tetiva*
Morse, H. Stephen, 609, 11662
Neculai, Stanciu, *see Bătineţu-Giurgiu*
Northshield, Sam, 800, 11671
Oman, Greg, 68, 11617
Oman, Greg, 608, 11658
Omarjee, Moubinool, 68, 11614
Omarjee, Moubinool, 427, 11648
Ozols, Raitis, 699, 11665
Palacios, José Luis, 800, 11672
Pohoata, Cosmin & Darij Grinberg, 699, 11664
Rakhimjanovich, Farrukh Ataev, 880, 11678
Rhea, Darren, *see Hillar*
Roelants, Herman, 700, 11669
Rogers, Mathew, 69, 11620
Ruskey, Frank, *see Celaya*
Saritzky, Nathan, *see Bloome*
Schwartz, Dan, *see Lupu*
Siboni, Stefano, 68, 11616
Siboni, Stefano, 609, 11660
Silagadze, Z.K., 161, 11621
Sofo, Anthony, 248, 11633
Stadler, Albert, 426, 11644
Stadler, Albert, 608, 11659
Stadler, Albert, 880, 11677
Stathopoulos, Dimitris, 700, 11668
Struble, Raimond, 881, 11683
Suceavă, Bogdan, *see Bakke*
Tetiva, Marian & Nicuşor Minculete, 344, 11635
Wan, James, *see Borwein, David*
Wu, Benson, *see Bakke*
Zieve, Michael, *see Lagarias*

PROBLEMS SOLVED

Alkauskas, Giedrius, 167
Apostolopoulos, George, 524
Bagby, Richard, 71
Baksalary, Oskar Maria & Götz Trenkler, 162
Barclays Capital Quantitative Analytics Group, 613, 886
Barclays Capital Quantitative Analytics Group, *see Simons*
Bostan, Alin, 703
Bostan, Alin & Bruno Salvy, 882
Botsko, Michael W., 704
BSI Problems Group, 251
Burdick, Bruce, *see Tauraso*
Burnette, Charles, 807
Caro, Nicolás, 346
Chapman, Robin, 164, 611, 884
Chen, Hongwei, 704
De, Prithwijit, 702
Dinca, Marian, 250, 706
Dyer, Justin S., 348
Faynshteyn, Oleh, 528
Herman, Eugene A., 345, 526
Howard, Ralph, 75
Ionin, Yury J., 428
Konstantopoulos, Takis, 429
Kouba, Omran, 803

Lau, Kee-Wai, 612
Lossers, O.P., 888
Marinescu, D & M. Monea, 527
McInturff, Kim, 429, 885
Miller, Victor S., 345
Monea, M., *see Marinescu*
Nandan, Rituraj, *see Tauraso*
Nuij, Wim, 431
Pierce, Stephen, 806
Prasad, M.A., 529
Salvy, Bruno, *see Bostan*
Schilling, Kenneth, 348
ShahAli, H.A., 72
Simons, Jim, 164, 349, 427, 615, 801, 885
Simons, Jim & Barclays Capital Quantitative Analytics Group (composite solution), 73
Simons, Jim & Richard Stong (composite solution), 252
Smith, John H., 881, 883
Smotzer, Thomas, 523
Stong, Richard, 165, 248, 345, 347, 431, 526, 882
Stretch, C.T., 700
Tang, H.T., 69
Tauraso, Roberto, 804
Tauraso, Roberto, Rituraj Nandan & Bruce Burdick (composite solution), 350
Texas State Problem Solving Group, 70
Tomper, Bob, 249
Trenkler, Götz, *see Baksalary*
Tyler, Douglas B., 253
Verriest, Erik. I., 609
Vörös, Zoltán, 250
Vowe, Michael, 614
Wildon, Mark, 701
Xiao, Stanley, 429

SOLUTIONS

January, 2012
11511, 69
11521, 70
11522, 71
11524, 72
11525,73
11526, 75
February, 2012
11466, 162
11471, 164
11477, 164
11478, 165
11483, 166
11484, 167
March, 2012
11475, 248
11485, 249
11491, 250
11493, 251
11495, 252
11499, 253
April, 2012
11487, 345
11488, 345
11490, 346
11496, 347
11498, 347
11500, 348
11503, 349
11505, 350
May, 2012
11507, 427
11508, 428
11509, 429
11516, 430
11519, 431
June–July, 2012
11527, 523
11531, 524
11534, 526
11535, 526
11536, 527
11541, 528
11542, 529
August–September, 2012
11543, 609
11547, 611
11548, 612
11549, 613
11550, 614
11551, 615
October, 2012
11510, 700
11520, 701
11552, 702
11554, 703
11555, 704
11556, 706
November, 2012
11523, 801

11528, 803
11529, 804
11532, 806
11544, 807
December, 2012
11530, 881
11533, 882
11537, 882
11538, 883
11539, 884
11545, 885
11546, 886
11553, 887

The MONTHLY expresses its appreciation to the following people for their help in refereeing during the past year. We could not function successfully without such people and their hard work.

Abrams, Aaron
Abramson, Josh
Adamchik, Victor
Adams, Colin
Adams, Donald
Aistleitner, Christoph
Akhtar, Reza
Akopyan, Arseniy
Albouy, Alain
Alexander, Stephanie
Alexanderson, Gerald
Allman, Elizabeth
Alon, Noga
Alsedà, Lluís
Anantharam, Venkat
Anderson, Dan
Anderson, David
Anderson, Marlow
Andres, Dominique
Andrews, George
Archibald, Tom
Arnold, Maxim
Artin, Michael
Ash, Marshall
Athreya, Krishna
Axler, Sheldon
Babenko, Yuliya
Baginski, Paul
Bailey, David
Bak, Joseph
Ball, Keith
Ballantine, Cristina
Baltus, Christopher
Barbeau, Edward
Barnard, Roger
Barrow-Green, June
Baruah, Nayandeep
Barvinok, Alexander
Bauschke, Heinz
Beanland, Kevin
Beck, Matthias
Bellhouse, David
Belyaev, Alexander
Benjamin, Arthur
Bényi, Árpád
Berend, Daniel
Berkovich, Alexander
Berman, Leah
Berndt, Bruce
Betten, Dieter
Beukers, Frits
Bieri, Joanna
Bilu, Yuri
Bishop, Richard
Blair, David
Blass, Andreas
Bloch, Bill
Blömer, Johannes
Boas, Harold
Boelkins, Matthew
Borwein, David
Borwein, Jonathan
Borwein, Josh
Bostan, Alin
Botsko, Michael
Boute, Raymond
Boyadzhiev, Khristo
Boyd, Suzanne
Bradley, Robert
Brady, Tom
Brams, Steven
Brauch, Timothy
Braverman, Mark
Bremner, Andrew
Bressoud, David
Britnell, John
Bröker, Reinier
Brothers, Harlan
Brown, Ezra
Brown, Nathanial
Buchin, Kevin
Bueno, Maribel
Bulajich, Radmila
Bullen, Peter
Burago, Dimitri
Burckel, Robert
Burman, Yurii
Cairns, Grant
Caldwell, Chris
Calkin, Neil
Campbell, Paul
Cannings, Chris
Cannon, Raymond
Cardon, David
Cardona, Ivan
Cerin, Zvonko
Chaika, Jon
Chamberland, Marc
Chambers, Christopher
Chang, Guisong
Chapman, Robin
Chen, Hang
Chen, Lizhou
Cheng, Christine
Cheng, Qi
Choi, Stephen
Chung, Julianne
Ciesielski, Krzysztof
Cilleruelo, Javier
Cochrane, Todd
Cohn, Henry
Conrad, Keith
Cooke, Roger
Costin, Ovidiu
Cox, David
Coykendall, James
Crannell, Annalisa
Cremona, John
Croot, Ernest
Daves, Phil
De Angelis, Valerio
Delandtsheer, Anne
Deléglise, Marc

DeTemple, Duane
Deutsch, Frank
Devaney, Robert
Deza, Michel
Diamond, Harold
Díaz Carrillo, Manuel
Dietmann, Rainer
Dilcher, Karl
Dindos, Martin
Dolbilin, Nikolai
Dragović, Vladimir
Dray, Tevian
Dresden, Greg
Drinen, Doug
Drton, Mathias
Drupieski, Chris
Du, Bau-Sen
Duncan, John
Dunham, William
Dym, Harry
Eaton, Nancy
Eckhardt, Ulrich
Edgar, Gerald
Efthimiou, Costas
Ehrenborg, Richard
Ellermeyer, Sean
Elliott, Peter
Elsholtz, Christian
Elsner, Ludwig
Engelberg, Shiomo
Epstein, David
Erdélyi, Tamás
Eriksson, Kimmo
Eschmeier, Jörg
Ethier, Stewart
Evans, Lawrence
Fabrykowski, Jacek
Falcon, Sergio
Falk, Michael
Falkner, Neil
Farenick, Douglas
Farris, Frank
Fasino, Dario
Feeman, Timothy
Feldman, William
Ferraro, Giovanni
Fiedler, Miroslav
Filaseta, Michael
Filippas, Stathis
Fisher, J.
Fitzgerald, Robert
Fleron, Julian
Fleuriot, Jacques
Folland, Gerald
Folsom, Amanda
Fontana, Marco
Fricke, Jan
Fritsch, Rudolf
Fuchs, Dmitry
Fukshansky, Lenny
Gabrielov, Andrei
Gallian, Joseph
Galperin, Gregory
Garcia, Stephan
Gardiner, Stephen
Gardner, Richard
Garibaldi, Skip
Garrity, Thomas
Gauld, David
Gelca, Razvan
Gerber, Leon
Geroldinger, Alfred
Ghomi, Mohammad
Gill, James
Gilles, Rob
Gillman, Rick
Girgensohn, Roland
Girstmair, Kurt
Glasby, Stephen
Glasser, Lawrence
Goberstein, Simon
Godbole, Anant
Goldfeld, Dorian
Goodman-Strauss, Chaim
Gorbatsevich, Vladimir
Gordon, Russell
Gorkin, Pamela
Gottlieb, Daniel
Gould, Henry
Gow, Rod
Grabiner, David
Grabiner, Judith
Graham, Sidney
Greene, John
Grinfeld, Pavel
Grinshpan, Anatolii
Grinstead, Charles
Gross, Christian
Grossman, George
Growney, Joanne
Grünbaum, Branko
Guralnick, Robert
Gutkin, Eugene
Guy, Richard
Guysinsky, Misha
Hachenberger, Dirk
Hagedorn, Thomas
Hahn, Alexander
Hairer, Ernst
Hajja, Mowaffaq
Hall, Brian
Hall, Rachel
Han, Qing
Hare, Kevin
Harper, James
Hartshorne, Robin
Hay, Damon
Hayashi, Takao
Henk, Martin
Henry, M.
Hermiller, Susan
Herzog, Gerd
Hillar, Christopher
Hiriart-Urruty, Jean-Baptiste
Hirschhorn, Michael
Hitchman, Michael
Hoelscher, Jing
Hogan, Emilie
Holdener, Judy
Holland, Finbarr
Hollings, Christopher
Holzman, Ron
Hooper, Pat
Hopkins, Brian
Horn, Roger
Hou, Xiang-Dong
Howard, Fredric
Huber, Tim
Hudson, Steven
Hulek, Klaus
Humke, Paul
Iga, Kevin
Impens, Chris
Ionescu, Marius
Ipsen, Ilse
Isaacs, Martin
Ivanov, Sergei
Izmestiev, Ivan
Jackiewicz, Zdzislaw
Jameson, Graham
Jesseph, Douglas
Jiang, Miaohua
Jing, Naihuan
Johnson, Charles
Johnson, Mark
Johnson, Steve
Johnson, Warren
Johnston, Bill
Jones, Frank
Jones, Lenny
Jones, Rafe
Joyce, David
Kahn, Peter
Kalelkar, Tejas
Kang, Cong

Kantor, William
Kaplan, Nathan
Kaplan, Samuel
Katz, Gabriel
Katz, Nicholas
Katz Victor
Kennedy, Judy
Kent, Deborah
Kenyon, Richard
Kerckhove, Michael
Key, Eric
Key, Jennifer
Khattri, Sanjay
Khesin, Boris
Khovanova, Tanya
Kifowit, Steven
Kimberling, Clark
Kirillov, Alexandre
Klain, Dan
Klavžar, Sandi
Klazar, Martin
Knobloch, Eberhard
Koch, Sarah
Kolokoltsov, Vassili
Komornik, Vilmos
Kon, Mark
Koralov, Leonid
Koshy, Thomas
Kossak, Roman
Kraft, Roger
Krick, Theresa
Krivelevich, Michael
Kufner, Alois
Kuperberg, Wlodzimierz
Laczkovich, Miklós
Lada, Tom
Lampret, Vito
Landsberg, J. M.
Lángi, Zsolt
Lawler, Gregory
Lawlor, Gary
Lawson, Mark
Leep, David
Lehen, Al
Lemmermeyer, Franz
Leok, Melvin
Lepelley, Dominique
Lev, Vsevolod
Levi, Mark
Levin, David
Levrie, Paul
Levy, Rachel
Lewis, Mark
Li, Xin
Little, John
Liu, Zhu
Livingston, Charles
Loeb, Peter
Loehr, Nicholas
Logan, J. David
Lombardi, Michele
Look, Daniel
Lorenzini, Dino
Lovejoy, Jeremy
Luca, Florian
Lucas, Stephen
Lucas, Tom
Lutz, Jack
Lvovski, S.
Lynch, Mark
Lynd, Chris
Lyons, Richard
MacLeod, Allan
Magid, Andy
Mann, Casey
Mansour, Toufik
Maróti, Attila
Marshall, Timothy
Martin, Greg
Martins da Fonseca, Carlos
Matousek, Jirí
Matthews, Matt
Mayer, John
McCleary, John
McMullen, Peter
Meade, Douglas
Medina, Luis
Mendivil, Franklin
Mercer, Peter
Merilä, Ville
Meyer, Kenneth
Miles, Will
Miller, Steven
Milne, Stephen
Misiurewicz, Michal
Mitchener, Garrett
Molinek, Donna
Moll, Victor
Morier-Genoud, Sophie
Morrison, Kent
Mortici, Cristinel
Morton, Jason
Mossel, Elchanan
Moulin, Hervé
Muir, Jerry
Mullen, Gary
Murty, Ram
Musiker, Gregg
Mustafa, Nabil
Mustafaev, Zokhrab
Myerson, Gerry
Nadler, Sam
Najman, Filip
Namioka, Isaac
Navasca, Carmeliza
Nelsen, Roger
Nelson, Gail
Neumann, Michael
Neumann, Peter
Nevai, Paul
Ng, Lenny
Nguyen, Mau
Nielsen, Pace
Northshield, Sam
Novikov, Alexei
Novikov, Dmitry
Nowak, Maria
Oleszkiewicz, Krzysztof
Oliver, Richard
Olofsson, Peter
Olsen, Lars
Ono, Takashi
Oprocha, Piotr
Osgood, Brad
Osler, Thomas
Ovsienko, Valentin
Pach, Janos
Packel, Edward
Paliogiannis, Fotios
Palka, Bruce
Pambuccian, Victor
Paschke, William
Pearse, Erin
Perline, Ronald
Peterson, Allen
Peterson, William
Pfeffer, Washek
Phillip, Andreas
Pilgrim, Kevin
Pinner, Christopher
Pinsky, Mark
Pippenger, Nicholas
Pollack, Paul
Pomerance, Carl
Poonen, Bjorn
Pozdnyakov, Vladimir
Prasolov, Victor
Propp, James
Provan, Scott
Putz, John
Radnovic, Milena
Rahman, Mizanur
Rasmusen, Eric
Reiner, Victor
Retakh, Vladimir

Richardson, Leonard
Richmond, Thomas
Roberts, Catherine
Roberts, Charles
Robins, Sinai
Rockafellar, R.
Rogers, Luke
Rogers, Jr., Jack
Roop, John
Roos, Cornelis
Rosales, José Carlos
Rosenhouse, Jason
Rosenthal, Jeffrey
Rosenthal, Peter
Rosu, Haret
Rouse, Jeremy
Rudenko, Daniil
Rynne, Bryan
Sadun, Lorenzo
Samuels, Charles
Sánchez-Reyes, Javier
Sapir, Mark
Sarason, Donald
Sauer, Tim
Savage, Carla
Scariano, Steve
Schaeffer, George
Schauz, Uwe
Schechter, Martin
Scheck, Florian
Scheinerman, Edward
Schicho, Josef
Schifano, Elizabeth
Schleicher, Dierk
Schmerl, James
Schmuland, Byron
Schneider, Rolf
Schumer, Peter
Schwartz, Richard
Schwenk, Allen
Sell, George
Sellers, James
Sendov, Blagovest
Serfati, Michel
Servatius, Brigitte
Shallit, Jeffrey
Shapiro, Daniel
Shapiro, Joel
Shapiro, Michael
Sharir, Micha
Sheil-Small, T.
Shen, Alexander
Shepp, Larry
Sheridan, Nick
Shifrin, Theodore
Shiu, Peter
Short, Ian
Shparlinski, Igor
Shreve, Warren
Shuman, Karen
Sibley, Thomas
Siegel, Paul
Silberman, Lior
Silva, Cesar
Silverman, Joseph
Simpson, Jamie
Singh, Dinesh
Sizer, Walter
Sklar, Jessica
Sloughter, Dan
Smith, Derek
Soifer, Alexander
Solomon, Bruce
Sondow, Jonathan
Sottile, Frank
Speyer, David
Spronk, Nico
Sprugnoli, Renzo
Srivastava, Hari M.
Staples, Susan
Stasheff, James
Stedall, Jackie
Steele, Michael
Stewart, Cameron
Stigler, Stephen
Stillwell, John
Stolarsky, Kenneth
Stoll, Thomas
Stowe, Dennis
Strempel, Torsten-Karl
Strichartz, Robert
Striuli, Janet
Su, Francis
Sullivan, Brendan
Suris, Yuri
Suzuki, Jeff
Swanson, Irena
Talvacchia, Janet
Taylor, David
Teismann, Holger
Tenenbaum, Gérald
Terrell, William
Thaine, Francisco
Thomson, Brian
Thorne, Frank
Tjani, Maria
Todorov, Todor
Tohaneanu, Stefan
Touhey, Pat
Trench, William
Trenkler, Götz
Tretkoff, Paula
Treviño, Enrique
Trombi, Peter
Tucker, Alan
Tymchatyn, E.
Vaintrob, Arkady
Vakil, Nader
van Lamoen, Floor
Vanderpool, Ruth
Vardulakis, A.I.G.
Varga, Richard
Vaughan, Robert
Velleman, Daniel
Venema, Gerard
Veselov, Alexander
Vincze, Csaba
Wagner, Stephan
Wagon, Stan
Wagstaff, Samuel
Walser, Hans
Wang, Yang
Ward, Michael
Washington, Lawrence
Watkins, David
Weber, Matthias
Weintraub, Steven
Wessell, Charles
Wiegand, Roger
Williams, Kenneth
Winkler, Franz
Winkler, Peter
Wittwer, Janine
Wolenski, Peter
Wong, Siman
Wu, Mingshen
Yee, Ae
Yesilyurt, Hamza
Yitzhaki, Shlomo
Young, Paul
Zeilberger, Doron
Zeitz, Paul
Zettl, Anton
Zhang, Fuzhen
Zhu, Jim
Ziegler, Günter
Zieve, Michael
Zudilin, Wadim
Zvonkine, Alexandre